

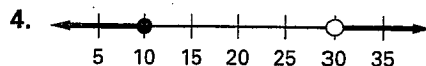
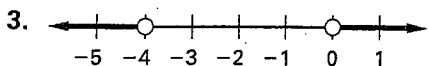
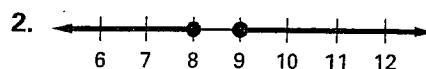
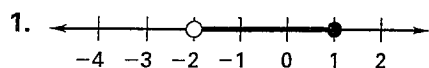
**Practice B**

For use with pages 340–345

**Solve the inequality.**

1.  $7x - 30 < 19$
2.  $-7 - 4x < 13$
3.  $3x - 1 > 1$
4.  $2x + 5 \leq 9$
5.  $-3x - 5 < 16$
6.  $-4x - 7 \geq -15$
7.  $6x + 1 \leq -2$
8.  $2x + 3 < 6x - 1$
9.  $3x - 2 \geq 7x - 10$
10.  $2x - 14 > 4x + 4$
11.  $6x + 3 \leq 3(x + 2)$
12.  $-2(x + 4) > 6x - 4$
13.  $7 - 3x \geq x + 9$
14.  $\frac{2}{3}x - 8 > -4$
15.  $-12 \leq \frac{3}{5}x - 18$
16.  $7x - 2 \leq -3(x - 2)$
17.  $7 - 5x > 9 - 4x$
18.  $3x - 4 \leq 2x - 4$

6.3

**Write an inequality that describes the graph shown.****Sketch a graph of the inequality.**

5.  $-3 \leq x \leq 6$
6.  $0 < x < 5$
7.  $x < -1$  or  $x \geq 2$
8.  $x \leq 2$  or  $x > 3$
9.  $-2 > x \geq -10$
10.  $x \geq 4$  or  $x < -2$

**Solve the inequality and graph its solution.**

11.  $3 < x - 3 \leq 5$
12.  $-2 < 4 + x < 4$
13.  $2x + 9 > 17$  or  $5x + 10 < 10$
14.  $3x - 6 \leq 0$  or  $4x + 5 \geq -3$
15.  $7 < 1 - x < 13$
16.  $4 + 5x > 24$  or  $16 + x \leq 17$
17.  $1 \leq 3x \leq 6$
18.  $-3 \leq 2x + 1 < 9$
19.  $15 - 7x \leq -6$  or  $6x - 3 < -6$

6.4

**Solve the equation.**

1.  $|x - 4| = 2$
2.  $|x + 3| = 9$
3.  $|x - 5| = 8$
4.  $|x + 4| = 1$
5.  $|2x - 3| = 5$
6.  $|4x - 5| = 11$
7.  $|3x + 5| = 7$
8.  $|6x + 3| = 21$
9.  $|3x - 7| = 26$
10.  $|x + 8.5| = 10.5$
11.  $|x - 1.8| - 7 = 3$
12.  $|x + \frac{1}{3}| = \frac{5}{3}$

**Solve the inequality.**

13.  $|x + 2| < 5$
14.  $|x + 4| > 9$
15.  $|x - 3| \leq 1$
16.  $|3x - 6| > 3$
17.  $|2x + 1| > 5$
18.  $|2x - 3| \leq 7$
19.  $|x - 3.2| \leq 8$
20.  $|3x + 2| - 1 > 9$
21.  $|x - 4| + 5 \leq 7$